

Name _____

Problem-Solving Strategy

Make a List

A class raises funds by selling frozen yogurt sundaes. They offer the following flavors and toppings.



Chocolate



Vanilla



Strawberry



Raisins



Pineapple



Coconut

Use a tree diagram to make a list to solve each problem.

1. List all of the possible combinations of yogurt flavors and toppings.

Yogurt Flavor	Topping	Combinations
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2. Scottie does not eat chocolate. How many combinations of flavors and toppings can he choose from? _____
3. The class serves the sundaes in either bowls or cups. How many possible combinations are there, if bowls or cups are used? _____
4. Harry wants to get two toppings on his yogurt. How many possible combinations of flavor and toppings does he have to choose from? _____
5. Liz wants 2 different scoops of yogurt with 1 topping. How many possible combinations can be made? _____

Answer Key

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A class raises funds by selling frozen yogurt sundaes. They offer the following flavors and toppings.



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1. List all of the possible combinations of yogurt flavors and toppings.

Yogurt Flavor	Topping	Combinations
chocolate	raisins	_____ chocolate, raisins
	pineapple	_____ chocolate, pineapple
	coconut	_____ chocolate, coconut
vanilla	raisins	_____ vanilla, raisins
	pineapple	_____ vanilla, pineapple
	coconut	_____ vanilla, coconut
strawberry	raisins	_____ strawberry, raisins
	pineapple	_____ strawberry, pineapple
	coconut	_____ strawberry, coconut

2. Scottie does not eat chocolate. How many combinations of flavors and toppings can he choose from? 6
3. The class serves the sundaes in either bowls or cups. How many possible combinations are there, if bowls or cups are used? 18
4. Harry wants to get two toppings on his yogurt. How many possible combinations of flavor and toppings does he have to choose from? 9
5. Liz wants 2 different scoops of yogurt with 1 topping. How many possible combinations can be made? 9